



TANK COMPONENTS INDUSTRIES

AN **L I S T A R** COMPANY
INCORPORATED

Mechanical Engineer

Reports to: Engineering Manager

Department: Office

Shift: 1st

Supervises: N/A

Summary

Under general supervision, the associate engineer will be responsible for planning, conducting, coordinating and performing various engineering duties, on new & existing projects. Works with the Sales department to interpret customer designs to develop drawings and specifications, while adhering to ASME guidelines. Additional duties may be required to assist the Engineering Manager to meet project deadlines.

Essential Functions

- Apply knowledge of general engineering principles, materials and manufacturing processes to achieve product design, manufacturing and quality requirements.
- Interpret customer & marketing input to define technical design requirements for new and existing products.
- Develop and maintain product documentation (drawings, specifications, procedures), through use of geometric dimensioning and tolerancing.
- Provide innovative product & component design solutions in response to customer and internal requirements.
- Perform design analysis & ASME pressure vessel calculations as required & provide input for design and data sheet specifications.
- Support R&D efforts in the development of new products.
- Work from drawings sketches or scanned images, customer drawings or government drawings or specification.
- Use the accepted drawing standards as guidelines.

Competencies

- Proficient with AutoCAD & Autodesk Inventor
- Proficient with Microsoft Office Suite & Adobe Acrobat
- Experience with Finite Element Analysis methods & software
- Familiarity with PTC Mathcad desirable
- Familiarity with ASME Boiler and Pressure Vessel Code
- Familiarity with ASME B31.3 Process Piping Code
- Familiarity with CAM systems desirable
- Strong attention to detail.
- Excellent communication skills.
- Good problem solving/analytical skills.
- Self-starter/motivated/initiative driven.

Supervisory Responsibility

None

Work Environment

This job operates in a professional office environment. While performing the duties of this job, the employee is frequently exposed to fumes or airborne particles, moving mechanical parts and vibration. The noise level in the work environment can be loud. This role routinely uses standard office equipment such as computers, phones, photocopiers, filing cabinets and fax machines.

Physical Demands

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job.

While performing the duties of this job, the employee is regularly required to sit. The employee frequently is required to walk; use hands to finger, handle or feel; reach with hands and arms; and talk or hear. The employee is occasionally required to stand. The employee must frequently lift and/or move items up to 50 pounds. Specific vision abilities required by this job include close vision, distance vision, color vision, peripheral vision, depth perception and ability to adjust focus.

Position Type and Expected Hours of Work

This is a full-time position.

Days and hours of work are Monday through Friday, 8:00 a.m. to 5:00 p.m.

Travel

No travel is expected for this position.

Other Duties

Please note this job description is not designed to cover or contain a comprehensive listing of activities, duties or responsibilities that are required of the employee for this job. Duties, responsibilities and activities may change at any time with or without notice.